

Name \_\_\_\_\_

Math 1  
Exam 8 Practice

The following problems are from quizzes and exams that I gave using the previous curriculum and textbook. For these practice problems, not only should you do them, you should also determine which standard(s) each problem addresses. Enjoy! ☺

1. The mean of 11 quiz scores is 18. A twelfth score of 15 is added in. What is the new mean?

2. The following is a stem and leaf plot of how many M&M's Mr. Buck ate in a day for 16 consecutive days. Make a histogram for this set of data.

stem	leaf
0	0, 0, 0
1	3, 1, 8, 6
2	5, 3, 4
3	8, 2, 2, 4, 2
4	2

Mr. Buck's M&M consumption

For the next two problems, use the following data:

Mr. Buck has developed a much healthier snacking habit. Below is how many pumpkin seeds he has eaten per day during a week:

0, 22, 0, 43, 37, 0, 24

3. Determine each of the averages. Which average best represents the data? Explain thoroughly.

4. Make a box-and-whiskers for the data.

5. (no calculator) Jimmy and John lost their graphing calculators, and they are trying to determine lines that fit the following data:

$x$	$y$
1	13
3	8
6	13
10	10

Jimmy decides to use the line  $y = 0.5x + 8$ , and John decides to use the line  $y = 11$ . Whose line fits the data better? Explain thoroughly.

6. In the following table,  $x$  represents the number of months elapsed since April of 2013 (for example,  $x = 1$  corresponds to May of 2013), and  $y$  represents the number of bottle rockets sold at Indiana Fireworks Extravaganza in the corresponding month.

$x$	$y$
1	5
2	75
3	154
4	5
5	7
6	6
7	10
8	107
9	13
10	16
11	15
12	22

How would you use this data to estimate the number of bottle rockets sold at Indiana Fireworks Extravaganza in September of 2014? Explain thoroughly and provide an estimate corresponding to your explanation.